SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

FORM APPROVED OMB 1004-0136

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Expires: May 31, 2000

5. LEASE DESIGNATION AND SERIAL NO.

SF 078244 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FO		WHE, DEE! HIT, O.	*** E00 D/10:1		
TYPE OF WORK DRILL	X DEEPEN			7. UNIT AGRE	~ //
TOTAL OF MEN					24076
TYPE OF WELL OIL			1 ## mm		ease name, well no.
WELL L	X OTHER	SINGLE ZONE	MULTIPLE ZONE		uthern Union #1B
AME OF OPERATOR	anna. In a			9. API WELL N	0.
Cordillera Ex	nergy, Inc.				045-31129 POOL OR WILDCAT
o Walsh Engineering, 74	US F Main St Fai	rminaton NM 27402	(505) 327-4892		fesa Verde/Basin Dakota
LOCATION OF WELL (Report location	n clearly and in accordance wit	- 7/		11. SEC., T., R.,	
Surface 1975' FSL an	d 2315' FWL N	FSW/	JUL 2000		ey or area
proposed Prod. Zone	, ,	in Option		K See	c. 19, T31N, R12W
Same					,
DISTANCE IN MILES AND DIRECTION		ST OFFICE.	The state of	12. COUNTY O	R PARISH 13. STATE
	west of Aztec, NM	<u> </u>		Sa	n Juan NM
DISTANCE FROM PROPOSED* LOCATI OR LEASE LINE, FT (Also to nearest drig.		16. NO. OF ACRES IN LEASE	~ ~ c 1 2	17. NO. OF ACRES A	SSIGNED TO THIS WELL
660'		320	43.	S/2	2 304.48 acres
DISTANCE FROM PROPOSED LOCATIO		19. PROPOSED DEPTH		20. ROTARY OR CAI	
DRILLING, COMPLETED, OR APPLIED 1 1300'	POR ON THIS LEASE, FT.	700	0'	R ₀	tary
ELEVATIONS (Show whether DF, RT, GR,	etc.)				ATE WORK WILL START*
5910' GR					ne 2002
		SING AND CEMENTING			
SIZE OF HOLE 12-1/4"	GRADE, SIZE OF CASING 9-5/8"	WEIGHT PER FOOT 36# J-55	250' +/-	165 cu ft	QUANTITY OF CEMENT Cl "B" w/ 2% CaCl 2
12 1/ /	, ,,,,	1 200 0-22		11000 04 /1.	CLDW/ZZDCACL
8-3/4"	7"				<i>E</i>
8-3/4" 6-1/4" ordillera Energy, Inc. pr se above described locati	7" 4-1/2" coposes to drill a ve	20# J-55 11.6#, N-80 ertical well to develo	4140' +/- 7000' +/- o the Blanco Mesa	1139 cu.j 307 cu.ft. Verde and B	ft. lead & 139 cu.ft. tail . lead & 196 cu.ft. tail
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District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

'API Number

District IV PO Box 2088, Santa Fe, NM B7504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

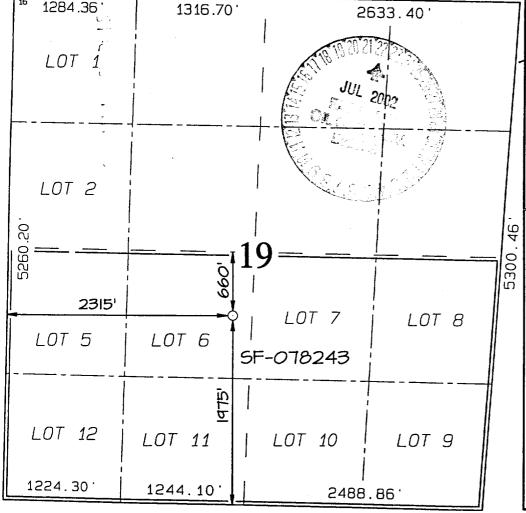
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-31129	72319 \ 71599	BLANCO ME	SAVERDE \	BASIN DAH	ATO
Property Code 24076	[†] Prope SOUTHE	*We	11 Number 18		
'OGRID No. 173252	*Operator Name CORDILLERA ENERGY, INC.				levation 5910 '
¹⁰ Surface Location					
UL or lot no. Section Township	Range Lot Ion Feet from th	North/South line	Feet from the	East/West line	County

*Pool Code

	IX	15	211/	124		19/5	SUUTH	2315	WEST	SAN JUAN
			11 E	Bottom	Hole L	ocation I	f Different	From Surf	ace	
'	L or latine.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 ,	Dedicated Acres			1		¹³ Joint or Infill	140	45.	<u></u>	
Ι,	Sedicated Atres		48 Acre	s - 19	6/2)	- Notife De Tuttiti	¹⁴ Consolidation Code	¹⁵ Order No.		
		504.	ACI C			Y				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



1/		-	~ · -	
			(` A 1	1 () ()
	OPERATOR	1	$\cup A$:	TUIN

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Tay Signature

Paul C. Thompson Printed Name

Agent

Pool Name

Title

6/7/02

Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: MAY 17, 2002

Signature and Seal of Professional Surveyor



Certificate Number

CORDILLERA ENERGY, INC. OPERATIONS PLAN Southern Union #1B

I. Location: 1975' FSL & 2315' FWL

Sec 19 T31N R12W San Juan County, NM Date: June 1, 2002

Field: Blanco MV & Basin DK

Elev: GL 5910'

Surface: BLM

Minerals: SF 078244

II. Geology: Surface formation _ Nacimiento

Α.	Formation Tops	Depths
	Ojo Alamo	480'
	Kirtland	640′
	Pictured Cliffs	2215'
	Cliff House	3930′
	Menefee	4230'
	Point Lookout	4715 ′
	Dakota	6840′
	Total Depth	7000′

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 3930'; gas - 2215', 4230', 4715', 6840'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No $\rm H_2S$ zones will be penetrated in this well. Max. BHP = 2500 psig.

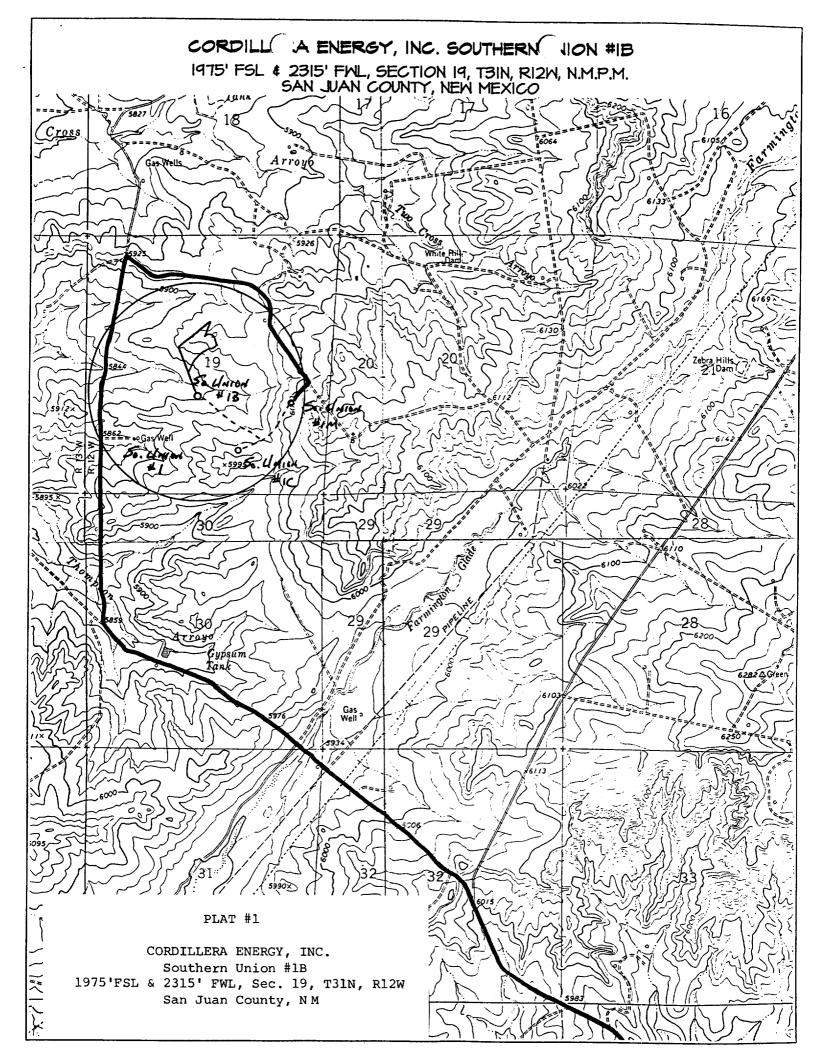
III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The intermediate hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

The production hole will be drilled with air or air/mist.



Southern Union #1B Operations Plan Pg #2

C. Minimum Blowout Control Specifications:

Double ram type 2000 psi working pressure BOP with a rotating head. See the attached Exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size 12-1/4"	Depth 250'	Casing Size 9-5/8"	Wt. & Grade 36# J-55
8-3/4"	4240'	9-3/6 7 "	20# J-55
6-1/4"	7000 ′	4-1/2"	11.6# N-80

B. Float Equipment:

- a) Surface Casing: Notched collar on bottom and 3 centralizers on the bottom 3 joints.
- b) Intermediate Casing: 7" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Ten centralizers spaced every other joint above shoe and ten turbolizers every other joint from 1500'.
- c) Production Casing: 4-1/2" whirler type cement nosed guide shoe and a float collar on top of the bottom joint.

Southern Union #1B Operations Plan Pg #3

V. Cementing:

Surface casing: 9-5/8" - Use 140 sx (165 cu. ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Intermediate Casing: 7" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 545 x (1139 cu.ft) of Type III 65/35 poz with 8% gel, 1% CaCl₂, ½#/sk. Celloflake. (Yield = 2.09 cu.ft./sk; slurry weight = 12.1 PPG). Tail with 100 sx (139 cu.ft.) of Type III with 1% CaCl₂, ½#/sk. Celloflake. (Yield = 1.39 cu.ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1278 cu.ft. (100% excess to circulate cement to surface). WOC for 12 hrs. Pressure test the BOP and casing to 1500 psi.

Production Casing: 4-1/2" - Blow hole clean. Precede cement with 20 bbls of gel water and 10 bbls of water. Lead with 155 sx (307 cu.ft.) of Premium Lite HS with 0.65% FL-52, 0.32% CD-32, ¼ #/sk celloflake, and 4% phenoseal. (Yield = 1.98 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (196 cu.ft.) of Premium Lite HS with 0.65% FL-52, and 0.32% CD-32. (Yield = 1.96 cu.ft./sk; slurry weight = 12.5 PPG). Total cement volume is 503 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

Paul C. Thompson, P.E.